

material layer to be inscribed and a backing layer impermeable to ingredients or water vapor, and using a movably guided laser beam emission device, said process comprising:

placing the adhesive in a support position;

guiding the laser emission device to emit the laser beam onto the device by a program of a manually operable central control unit; and

controlling the intensity and penetration depth of the laser beam according to the material properties of the system in such a way that the laser beam does not penetrate far enough to reach one of the at least one ingredient-containing layer and preventing a detrimental influence on the ingredients contained in the system.

14. (New) The process according to claim 13 wherein the sheet-like adhesive system -is an active agent-containing therapeutic system.

15. (New) The process according to claim 14 wherein the active-agent containing therapeutic system is in the form of a plaster.

16. (New) The process according to claim 13 wherein said detrimental influence is heat generated by said guided laser beam.

17. (New) The process according to claim 13 wherein said detrimental influence is a perforation of said backing layer.

18. (New) The process according to claim 13 and further including covering the layer to be inscribed with an overlying layer having information in the form of characters or signs thereon, said overlying layer being a color layer which disintegrates at a moderate laser irradiation level, applying the moderate laser irradiation level to disintegrate the color level and inscribing the laser-exposed information in the form of characters or signs onto the underlying layer to be inscribed.

19. (New) The process according to claim 13 wherein at least one pigment-containing layer is under the layer to be inscribed and each of the at least one pigment-containing layers disintegrates at a moderate laser irradiation level, and the process further includes applying the moderate laser irradiation level to disintegrate the at least one pigment containing layer while applying the laser-exposed characters onto the underlying pigmented layer.
20. (New) The process according to claim 13 wherein the overlying information layer has a conspicuous color relative to the layer to be inscribed.
21. (New) The process according to claim 13 and further including setting the intensity of the effect of the laser beam to particular parameters, and setting the parameters determining the intensity of the effect of the laser beam on the layer to be inscribed to modify only the uppermost layers of the system.
22. (New) The process according to claim 13 and further including guiding by electromagnetic control the movably guided laser beam to amend, delete or input at any point the information being inscribed by the program of the manually operable central control unit.
23. (New) The process according to claim 22 wherein the central control unit includes a keyboard.
24. (New) A process according to claim 22 and further including transferring the data generated by other production steps to the program of the central control unit.
25. (New) A process according to claim 13 wherein the process further includes a method to produce single-colored or multi-colored pattern of characters or signs comprising applying at least two overlying pigmented layers to the layer to be inscribed, and further including disintegrating the at least two pigmented layers by